



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Melvin et al. Art Unit :
Serial No. : Unassigned Examiner :
Filed : June 4, 2001
Title : TUMOR-SPECIFIC P450 PROTEIN

Commissioner for Patents
Washington, D.C. 20231

PRELIMINARY AMENDMENT

Prior to examination, please amend the application as follows.

In the Specification:

Please insert the following paragraph at page 1, line 2, above the line titled "Field of the invention":

--Cross-Reference to Related Applications

This application is a divisional of U.S. Serial No. 09/043,814, filed on March 25, 1998, which is continuation under 35 USC § 371 of PCT Application Number PCT/GB96/02368, filed on September 25, 1996, which claims priority from Application Number GB 9519490.8, filed on September 25, 1995, all of which are incorporated herein by reference in their entirety.--

In the Claims:

Cancel claims 1-26 without prejudice.

Add claims 27-40.

--27. (New) A method for stimulating the human immune system, the method comprising activating human T cells that recognize a human CYP1B1 epitope.

CERTIFICATE OF MAILING BY FIRST CLASS MAIL

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28. (New) The method of claim 27, wherein activation of T cells is achieved by immunizing a human with a CYP1B1 amino acid sequence.

29. (New) The method of claim 28, wherein the method comprises activating cytotoxic T cells.

30. (New) The method of claim 28, wherein the method comprises activating helper T cells.

31. (New) The method of claim 28, wherein the human has a cancer.

32. (New) The method of claim 31, wherein the cancer is in the bladder, brain, breast, colon, connective tissue, kidney, lung, lymph node, esophagus, ovary, skin, stomach, testis, or uterus.

33. (New) The method of claim 31, wherein the immunization results in a cell-mediated or humoral immune response against the cancer.

34. (New) The method of claim 28, wherein the CYP1B1 amino acid sequence comprises ESLRPGAAPRDMMD (SEQ ID NO:1).

35. (New) The method of claim 28, wherein the CYP1B1 amino acid sequence comprises EKKAAGDSHGGGAR (SEQ ID NO:2).

36. (New) A method of treating cancer in a human, the method comprising administering to the human an effective amount of a medicament that activates an immune response against a cell in which CYP1B1 is expressed.

37. (New) The method of claim 36, wherein the method comprises activating cytotoxic T cells.

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38. (New) The method of claim 36, wherein the method comprises activating helper T cells.

39. (New) The method of claim 36, wherein the cancer is in the bladder, brain, breast, colon, connective tissue, kidney, lung, lymph node, esophagus, ovary, skin, stomach, testis, or uterus.

40. (New) The method of claim 36, wherein the administration results in a cell-mediated or humoral immune response against the cancer.--

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REMARKS

Applicants have cancelled claims 1-26 and added claims 27-40. Support for these amendments and new claims can be found in the application at, e.g., page 4, lines 20-24, page 9, lines 20-27, page 3, lines 13-15, and original claims 23-24. These amendments add no new matter. Attached is a marked-up version of the changes being made by the current amendment.

Applicants ask that all claims be examined and allowed. Please apply any charges or credits to Deposit Account No. 06-1050, referencing attorney docket number 12489-003002.

Respectfully submitted,

Date: _____

June 4, 2001

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Applicant : Melvin et al.
Serial No. : Unassigned
Filed : June 4, 2001
Page : 5

Attorney's Docket No.: 12489-003002

Version with Markings to Show Changes Made

In the Claims:

Claims 1-26 have been cancelled.

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